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BULLETIN
OF THE
TORREY BOTANICAL CLUB.

Vol. XIII.]

New York, July, 1886.

[No. 7.]

Check List of Marine Algæ.

Based on Specimens collected on the shores of Long Island, from 1839 to 1885.

By NICOLAS PIKE.

ORDER I.—CRYPTOPHYCEÆ.

SUB-ORDER—NOSTOCHINEÆ.

Sphærozyga Carmichaelii, Harv. Fort Hamilton, Greenport, on decayed algæ; summer.

Nodularia Harveyana, Thuret. Bay Ridge and Hell Gate; summer.

Spirulina tenuissima, Kütz. Fort Hamilton pier, Fikepoles, Gravesend Bay; summer.

Beggiatoa alba, Treves. Fort Hamilton, Jamaica Bay; summer.

Oscillaria limosa, Kütz, and

O. subuliformis, Harv. Jamaica Bay, Whitestone.

Microcoleus chthonoplastes, Thuret. Fort Hamilton, Greenport; summer.

Lyngbya majuscula, Harv. Canarsie, College Point; summer.

L. æstuarii, Liebm. Fort Hamilton, Bay Ridge; summer.

L. luteo-fusca, Ag. Coney Island Creek; summer.

L. tenerima, Thuret. Jamaica Bay, College Point; summer.

L. nigrescens, Harv. Canarsie, Bay Ridge; summer.

Calothrix confervicola, Ag., in fresh and salt water. Bay Ridge and Fort Hamilton; summer.

C. crustacea (Schousb.), Born. and Thuret. Bay Ridge and Fort Hamilton; summer.

C. scopulorum, Ag. Greenport, Little Egg Harbor; summer.

- C. pulvinata*, Ag. Greenport, Little Egg Harbor ; summer.
C. parasitica, Thuret. Greenport, Jamaica Bay ; summer.
Rivularia atra, Roth. Hell Gate, Flushing Bay.
R. plicata, Carm. Jamaica Bay, Canarsie.
Isactis plana, Thuret. Fort Hamilton, Jamaica Bay on *Fucus*.
Hormactis Quoyi (Ag.), Born. Greenport ; July.

ORDER II.—ZOÖSPOREÆ.

SUB-ORDER.—CHLOROSPOREÆ.

Monostroma pulchrum, Farlow. College Point, Sag Harbor ; April.

M. Grevillei, Wittrock. College Point, Sag Harbor ; June.

Ulva Lactuca (L.), Le Jolis.*

U. Lactuca, var. *rigida* (Ag.), Le Jolis.*

U. Lactuca, var. *Lactuca*, Le Jolis.*

U. Lactuca, var. *latissima*, Le Jolis.*

U. enteromorpha, Le Jolis.*

U. enteromorpha, var. *lanceolata*, Le Jolis.*

U. enteromorpha, var. *intestinalis*, Le Jolis.*

U. enteromorpha, var. *compressa*, Le Jolis.*

U. clathrata, Ag.*

U. Hopkirkii (McCalla.),* Harv.

(Very common all around the coast).

Ulothrix flacca (Dillw.), Thur. Greenport ; summer.*

U. isogona, Thuret. College Point, Rockaway ; April.

U. collabens (Ag.), Thur. Greenport ; May.

Chaetomorpha melagonium (Web. and Mohr), Kütz. Greenport, Rockaway inlet.*

C. ærea (Dillw.), Kütz. Bath, Bay Ridge ; summer.

C. Picquotiana (Mont.), Kütz. Fort Hamilton ; summer.*

C. Linum (Flor. Dan.), Kütz. Jamaica Bay ; summer.*

Rhizoclonium riparium, Roth. Harv. College Point ; July.*

B. tortuosum, Kütz. Orient.

Cladophora arcta, Dillw. Fort Hamilton, Bay Ridge, College Point ; February to June.

C. lanosa (Roth.), Kütz. Rockaway, Flushing ; May and June.

C. lanosa, var. *uncialis*, Thur. Rockaway, Flushing ; May and June.

C. rupestris, (L.) Kütz. Canarsie, Bath, College Point.*

C. albida (Huds.), Kütz. Jamaica Bay; very common.*

C. refracta (Roth.), Aresch. Jamaica Bay; very common.

C. glaucescens (Griff.), Harv. College Point, Orient, Greenport; summer.

C. laetevirens (Dillw.), Harv. Fort Hamilton, Gravesend Bay; summer.

C. Hutchinsiae (Dillw.), Kütz. College Point; very rare; summer.

C. flexuosa (Griff.), Harv. East River, Flushing Bay; summer.

C. Rudolphiana, Ag. Jackson Ferry, Hell Gate; July.

C. gracilis (Griff.), Kütz. Fort Hamilton; April to June.

C. expansa, Kütz. Greenport; summer.*

C. fracta, Kütz. South Ferry; summer.*

Bulbocoleon piliferum, Prings. Greenport; July.*

SUB ORDER.—BRYOPSIDEÆ.

Bryopsis plumosa, (Huds). Ag. Fort Hamilton, Bay Ridge; May to September.

B. hypnoides, Lamx. College Point, Jackson Ferry; May to September.

Family SCYTOSIPHONÆ.

Phyllitis fascia, Kütz. All round the coast; November to January.

Scytosiphon lomentarius, Ag. All round the coast.*

Family PUNCTARIÆ.

Punctaria latifolia, Grev. Fort Hamilton, Greenport; June.*

P. latifolia, var. *Zosterae*, Le Jolis. Fort Hamilton, Greenport; June.*

P. plantaginea, (Roth.) Grev. Orient, Sag Harbor; summer.

Family DESMARESTIÆ.

Desmarestia aculeata, Lamx. Fort Hamilton, Orient, Greenport; summer.*

D. viridis, Lam. Fort Hamilton; very common; summer.*

Family DICTYOSIPHONÆ.

Dictyosiphon fœniculaceus, Grev. Greenport, Port Jefferson; spring and summer.

D. hippuroides, Lyngb. College Point, Jamaica Bay.*

Family ECTOCARPEÆ.

Myriotrichia clavæformis, Harv. Greenport, Orient, Montauk Point; summer.

Ectocarpus reptans, Crouan. Greenport, Port Jefferson; summer.*

E. tomentosus (Huds.), Lyngb. College Point; summer.*

E. granulosus, Ag. Sag Harbor; summer.

E. granulosus, var. *tenuis*, Farlow. Sag Harbor; summer.*

E. confervoides, (Roth.) Le Jolis. College Point, Sag Harbor.*

E. confervoides, var. *siliculosus*, Kjellman. College Point, Sag Harbor.*

E. fasciculatus, Harv. Hell Gate, Orient, Quogue; summer.*

E. lutosus, Harv. Great South Bay, Fort Hamilton; summer.*

E. littoralis, Lyngb. All round the coast.

E. littoralis, var. *robustus*, Farlow. All round the coast.*

E. brachiatus, Harv. College Point, Jamaica Bay; summer.*

E. Hooperi, Harv. Greenport; summer.*

E. Dietziæ, Harv. Greenport; summer.*

Family SPHACELARIÆ.

Sphacelaria cirrhosa (Roth.), Ag. Greenport; October.*

S. radicans (Dillw.), Harv. College Point; November.*

Cladostephus verticillatus, Ag. Orient, Oyster Bay; September and October.*

Family MYRIONEMEÆ.

Myrionema vulgare, Thur. Common parasite on other algæ.

Family LEATHESIAÆ.

Elachistea fucicola, Fries. Common, growing on Fuci; summer.*

Myriactis pulvinata, Kütz. Greenport, Southampton, Orient; growing on other algæ; summer.*

Leathesia difformis (L.), Aresch. Parasite; Greenport, Fort Hamilton, Orient; summer.*

Family CHORDARIÆ.

Chordaria flagelliformis, Ag. Greenport, Sag Harbor, Orient; summer.*

Mesogloia divaricata, Kütz. Jamaica Bay, Great South Bay ; August and September.*

M. vermicularis, Ag. Greenport ; rare ; summer.*

Castagnea virescens (Carm.), Thur. Whitestone, Orient ; May.*

C. Zostereæ, (Mohr.) Thur. Whitestone, Orient ; May.*

Family SPOROCHNEÆ.

Stilophora rhizodes, Ag. Greenport, Peconic Bay, Fort Hamilton, Orient ; July to November ; in fruit October.

Arthrocladia villosa, Duby. Greenport ; rare.*

Striaria attenuata, Grev. Flushing Bay, Hell Gate, Fort Hamilton ; summer.

Family LAMINARIÆ.

Chorda filum, L. Whitestone, Peconic Bay, Orient ; August and September.

Laminaria saccharina (L.), Lamx. Rockaway Beach, Montauk Point.

L. digitata (Turn.), Lamx. Greenport, Orient.

Alaria esculenta, Grev. Greenport, Orient, Peconic Bay.

ORDER III.—OOSPOREÆ.

SUB-ORDER.—FUCACEÆ.

Ascophyllum nodosum, Le Jolis. Common round the coast.

Fucus vesiculosus, L. Common.

F. ceranoides, L. Fort Hamilton, Orient.

Sargassum vulgare, Ag. Bath, Freeport, College Point.*

S. vulgare, var. *Montagnei*, Farlow. Fort Hamilton, Greenport.*

S. bacciferum, Ag. Rockaway Beach.

SUB-ORDER.—VAUCHERIEÆ.

Vaucheria Thuretii, Woronin. All round the coast in ditches.

V. litorea, Nordstedt. All round the coast in ditches.

ORDER IV.—FLORIDEÆ.

Trentepohlia virgatula (Harv.), Farlow. College Point ; summer.*

T. virgatula, var. *secundata*, Farlow. College Point ; summer.*

SUB-ORDER.—PORPHYREÆ.

Porphyra laciniata, Ag. All round the coast ; summer.*

Bangia fusco-purpurea, Lyngb. Fort Hamilton, Flushing Bay, Greenport ; summer.*

SUB-ORDER.—SQUAMARIEÆ.

Peyssonnelia Dubyi, Crouan. Greenport, Peconic Bay.

Hildenbrandtia rosea, Kütz. Common, in patches on stones.

SUB-ORDER.—NEMALIEÆ.

Nemalion multifidum, Ag. Sag Harbor, Greenport; August and September.*

Scinaia furcellata, Bivona. College Point, Greenport; summer.*

SUB-ORDER.—SPERMOTHAMNIEÆ.

Spermotheramnion Turneri, Aresch. Bath, Jamaica Bay, Fort Hamilton; summer.

SUB-ORDER.—CERAMIEÆ.

Callithamnion Rothii, Lyngb. Fort Hamilton; probably spring.*

C. cruciatum, Ag. Red Hook, Bay Ridge, Fort Hamilton; September and October.

C. floccosum, Ag. Greenport, Orient.

C. Pylaisæi, Mont. Peconic Bay, Sag Harbor, Quogue.

C. Americanum, Harv. Bath, Shinnecock Bay, College Point; June.*

C. plumula, Lyngb. Fort Hamilton, College Point; September to October.*

C. Borreri, Ag. Fort Hamilton, Bay Ridge.*

C. roseum (Roth.), Harv. Jamaica Bay, Fort Hamilton.*

C. polyspermum, Ag. Bath, Hempstead Bay.*

C. tetragonum, Ag. Fort Hamilton.*

C. Baileyi, Harv. Fort Hamilton; August to November.

C. Baileyi, var. *laxa*, Farlow. Fort Hamilton, on *Zostera*, shells and stones.

C. byssoideum, Arn. Greenport, Fort Hamilton; October and November.*

C. corymbosum, Lyngb. Bath, Orient, Greenport; October and November.

C. corymbosum, var. *secundatum*, Harv. Bath, Orient, Greenport, on *Zostera*, etc.

C. Dietziæ, Hooper. Greenport.*

C. scirosperrum, Griff. College Point.*

C. tenue, Harv. Fort Hamilton, Jamaica Bay.

Griffithsia Bornetiana, Farlow. Sag Harbor, Hell Gate; June and July.*

Halurus equisetifolius, Kütz. Greenport, Great South Bay.*

Ptilota elegans, Bonnem. Coney Island, Fort Hamilton; September and October.*

P. serrata, Kütz. Bath, Greenport; September and October.*

Ceramium rubrum, Ag. Common round the coast; June and July.*

C. rubrum, var. *proliferum*, Ag. June and July.*

C. rubrum, var. *secundatum*, Ag. Common; June and July.*

C. rubrum, var. *squarrosus*, Harv. June and July.*

C. circinnatum, Kütz. Glen Cove; August and September.*

C. diaphanum, Roth.

C. strictum (Kütz.), Harv. Jamaica Bay; August and Sept.

C. Hooperi, Harv. Greenport.*

C. fastigiatum, Harv. Rockaway, Jamaica Bay; June and July.*

C. tenuissimum (Lyngb.), Ag. Sag Harbor, Glen Cove; July and August.*

C. tenuissimum, var. *arachnoideum*, Ag. July and August.*

C. tenuissimum, var. *patentissimum*, Harv. On *Zostera* and algæ; July and August.

C. Capri-Cornu (Reinsch.), Farlow. Canarsie.*

SUB-ORDER.—SPYRIDIEÆ.

Spyridia filamentosa, Harv. Sag Harbor, Glen Cove, Fort Hamilton; August and September.

SUB-ORDER.—GIGARTINEÆ.

Phyllophora Brodiei, Ag. Glen Cove, Hell Gate, Orient; September and October.*

P. membranifolia, Ag. Hell Gate, Fort Hamilton, Greenport; September to November.

Gymnogongrus Norvegicus, J. Ag. Rare, dredged off the Narrows.*

G. Torreyi, Ag. Common, Fort Hamilton, Glen Cove; November to January.*

Ahnfeldtia plicata, Fries. Fort Hamilton, Port Jefferson; August and September.

A. plicata, var. *fastigiata*, Farlow. Greenport, College Point..

Cystoclonium purpurascens, Kütz. Common round the coast; August to November.*

C. purpurascens, var. *cirrhusa*, Farlow. Common round the coast; August to November.*

Gigartina mamillosa, Ag. Greenport, Montauk Point; August and September.*

Chondrus crispus (L.), Stack. Port Jefferson, Glen Cove, College Point; August to November.*

SUB-ORDER.—RHODYMENIEÆ.

Rhodymenia palmata (L.), Grev. Orient, Montauk Point, Greenport; September and October.*

R. palmata, var. *Sarniensis*, Farlow. Montauk Point, Greenport; September and October.*

Euthora cristata, J. Ag. Montauk, Orient, Greenport; September.*

Lomentaria uncinata, Menegh. College Point, Glen Cove; September and October.*

L. uncinata, var. *filiformis*, Harv.

L. rosea (Harv.), Thur. Montauk, Orient, Port Jefferson.

Champia parvula, Ag. Bay Ridge, Canarsie, Jamaica Bay.

SUB-ORDER.—HYPNEÆ.

Hypnea musciformis, Lamx. Greenport, Flushing Bay.

SUB-ORDER.—GELIDIEÆ.

Gelidium crinale, J. Ag. Common from Fort Hamilton to Greenport; December and January.*

SUB-ORDER.—SOLIERIEÆ.

Rhabdonia tenera, Ag. Common round the coast; August to November.

SUB-ORDER.—SPONGIOCARPEÆ.

Polyides rotundus, Grev. Sag Harbor, Montauk, Port Jefferson; April and May.*

SUB-ORDER.—SPHAEROCOCCOIDEÆ.

Grinnellia Americana, Harv. Very common, Fort Hamilton and Gravesend; July to November.*

Delleseria sinuosa, Lamx. Montauk Point, Greenport; September to December.*

D. alata, Lamx. Montauk Point.

D. Leprieurii, Mont. Flushing Bay, Glen Cove; summer.*

Gracilaria multipartita, J. Ag. Glen Cove, Port Jefferson; November to January.*

G. multipartita, var. *angustissima*, Harv. Pond Quogue; November.*

SUB-ORDER.—RHODOMELEÆ.

Chondriopsis dasyphila, Ag. Southampton; June and July.*

C. dasyphila, var. *sedifolia*, Ag. Ammaganset Beach.

C. tenuissima, Ag. Glen Cove, Greenport, Orient; June.*

C. tenuissima, var. *Baileyana*, Farlow. Glen Cove, Greenport, Orient; July.*

C. littoralis (Harv.), J. Ag. Fort Hamilton, Cow Bay.*

C. atropurpurea (Harv.), J. Ag. Jamaica Bay, Glen Cove.*

G. atropurpurea, var. *fasciculata*, Farlow. Fort Hamilton.*

Rhodomela subfusca, Ag. April and May.

R. subfusca, var. *gracilior*, J. Ag. Common in Spring at Bay Ridge, Fort Hamilton, College Point, Glen Cove; April and May.

Polysiphonia urceolata (Dillw.), Grev. Shinnecock Bay, Bay Ridge; May and June.*

P. urceolata, var. *formosa*, Ag. Fort Hamilton; May and June.*

P. urceolata, var. *patens*, Grev. Fort Hamilton; May and June.*

P. subtilissima, Mont. Jamaica Bay.

P. subtilissima, var. *Westpointensis*, Harv. Jamaica Bay.

P. Olneyi, Harv. Canarsie.

P. Harveyi, Bail. Fireplace Bay, Greenport.

P. elongata, Grev. Peconic Bay, Glen Cove; October and November.

P. fibrillosa, Grev. Jamaica Bay, Fort Hamilton.

P. violacea, Grev. Greenport, Montauk; July.

P. violacea, var. *flexicaulis*, Harv. Greenport, Montauk.

P. variegata, Ag. Common round the coast.

P. parasitica, Grev. Fort Hamilton, East River.

P. atrorubescens, Grev. East River, Hell Gate.

P. nigrescens, Grev. Common; May and June.

P. nigrescens, var. *fucoides*, Ag. Fort Hamilton, Bay Ridge.

P. nigrescens, var. *affinis*, Ag. Fort Hamilton, Bay Ridge.

P. fastigiata, Grev. Glen Cove, Montauk Point; July and August.

Bostrychia rivularis, Harv. Flushing Bay, Whitestone.

Dasya elegans, Ag. Common; July to November.

Corallina officinalis, L. Common.

Melobesia farinosa, Lamx. Glen Cove, Greenport.

M. pustulata, Lamx. Flushing Bay, Rockaway.

M. macrocarpa, Rosanoff. Orient, Canarsie, Quogue.

M. Lenormandi, Aresch. Fort Hamilton College Point.,

* Those marked with an asterisk were found in fruit at the time specified.

The Flora of Ross County, Ohio, COMPARED WITH THAT OF NEW ENGLAND.

Read June 8th.

W. E. SAFFORD.

In Southern Ohio the first of the spring flowers is the "pepper-and-salt", or "harbinger of spring", *Erigenia bulbosa*, Nutt., a tiny Umbelifer. I have found it as early as the last week in February, although it does not usually appear until a month later. It grows in shady woods, where it is usually found nestling between the forking roots of beeches, associated with *Isopyrum bitermum*, T. and Gr. The latter is a beautiful little plant closely resembling *Thalictrum anemonoides*, but with fibrous instead of tuberous roots. In the region through which I botanized nearly every specimen of *Thalictrum anemonoides* had pink-tinted sepals.

Of the two species of *Hepatica* which occur in Southern Ohio, *Hepatica acutiloba*, DC., is much more common. I have found many specimens which seem to be intermediate between the two species. Many other spring plants occur which are familiar to New England botanists, such as: *Dicentra Canadensis*, DC., and *D. Cucullaria*, DC.; *Dentaria laciniata*, Muhl.; *Sanguinaria Canadensis*, L., and *Podophyllum peltatum*, L. *Anemone nemorosa*, L., does not occur. I have never found *Dentaria diphylla*, L.; but it has been recorded as growing in the vicinity of Cincinnati.

Trillium grandiflorum, Salisb., is common. Associated with it are two *Trilliums* not found in New England: *Trillium sessile*,